CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-30-01** **Date: 01-09-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of Anganawad at near Mallikarjuna temple in ward no.13 in Shettyhalli Sub division.
Agency	:	Sri. Venkateshappa, #530, Kaliyamma Temple road, Kuvempu Nagara, 2nd stage, Bengaluru.
Customer's Reference	:	EE/DD/WO/142/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-17
Sample ID No	:	2017-08-30-01/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	31-08-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.07	–
2	Finess by Air permeablity method (m^2/kg, Min)	278.9	225m^2/kg, Min
3	Density (gm/cc)	3.19	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	195 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-30-01** **Date: 28-09-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of Anganawad at near Mallikarjuna temple in ward no.13 in Shettyhalli Sub division.
Agency	:	Sri. Venkateshappa, #530, Kaliyamma Temple road, Kuvempu Nagara, 2nd stage, Bengaluru.
Customer's Reference	:	EE/DD/WO/142/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-17
Sample ID No	:	2017-08-30-01/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	31-08-17

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-30-01** **Date: 02-09-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of Anganawad at near Mallikarjuna temple in ward no.13 in Shettyhalli Sub division.
Agency	:	Sri. Venkateshappa, #530, Kaliyamma Temple road, Kuvempu Nagara, 2nd stage, Bengaluru.
Customer's Reference	:	EE/DD/WO/142/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	30-08-17
Sample ID No	:	2017-08-30-01/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-08-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	588	588	3.9	96.1	90-100
3	20 mm	8765	9353	62.4	37.6	30-70
4	10 mm	3872	13225	88.2	11.8	10-35
5	4.75 mm	1586	14811	98.7	1.3	0-5
6	Pan	189	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-08-30-01** **Date: 02-09-17**

Sample ID No : 2017-08-30-01/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**14.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.7**	
3	Specific Gravity	**2.61**	–
4	Bulk Density(Loose) (Kg/l)	**1.51**	–
5	Bulk Density(Compacted) (Kg/l)	**1.56**	–
6	Water Absorption(%)	**0.32**	–

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-30-01** **Date: 02-09-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of Anganawad at near Mallikarjuna temple in ward no.13 in Shettyhalli Sub division.
Agency	:	Sri. Venkateshappa, #530, Kaliyamma Temple road, Kuvempu Nagara, 2nd stage, Bengaluru.
Customer Reference	:	EE/DD/WO/142/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-17
Sample ID No	:	2017-08-30-01/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-08-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	212	212	4.2	95.8	90-100
3	10 mm	2158	2370	47.4	52.6	25-55
4	4.75 mm	2366	4736	94.7	5.3	0-10
5	Pan	264	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-08-30-01** **Date: 02-09-17**

Sample ID No : 2017-08-30-01/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.6	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	20.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-08-30-01** **Date: 02-09-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of Anganawad at near Mallikarjuna temple in ward no.13 in Shettyhalli Sub division.
Agency	:	Sri. Venkateshappa, #530, Kaliyamma Temple road, Kuvempu Nagara, 2nd stage, Bengaluru.
Customer's Reference	:	EE/DD/WO/142/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-17
Sample ID No	:	2017-08-30-01/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	30-08-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	58	58	5.8	94.2	90-100	90-100	90-100	95-100
3	2.36 mm	116	174	17.4	82.6	60-95	75-100	85-100	95-100
4	1.18 mm	251	425	42.5	57.5	30-70	55-90	75-100	90-100
5	600 micron	188	613	61.3	38.7	15-34	35-59	60-79	80-100
6	300 micron	209	822	82.2	17.8	5-20	8-30	12-40	15-50
7	150 micron	154	976	97.6	2.4	0-10	0-10	0-10	0-15
8	Pan	24	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-08-30-01** **Date: 02-09-17**

Sample ID No : 2017-08-30-01/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.66	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	3.00	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-09-04-03** **Date: 07-09-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of Anganawad at near Mallikarjuna temple in ward no.13 in Shettyhalli Sub division.
Agency	:	Sri. Venkateshappa, #530, Kaliyamma Temple road, Kuvempu Nagara, 2nd stage, Bengaluru.
Customer's Reference	:	EE/DD/WO/142/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-17
Sample ID No	:	2017-09-04-03/01
Sample Type/Size	:	Solid concrete blocks of size (400X200X150)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	04-09-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	151	202	12262	26.370	2150.6	2142.3	Not less than 1800Kg/m^3
2	400	150	203	12180	25.680	2108.4		
3	401	150	202	12150	26.340	2167.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	27.030	25.750	4.97	4.59	Shall not be more than 10% by mass
2	27.150	25.990	4.46		
3	27.616	26.470	4.33		

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Lab ID : **CP-2017-09-04-03** **Date: 07-09-17**

Sample ID No : **2017-09-04-03/01**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	150	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	404	151	203	
3	402	152	201	
4	401	152	201	
5	401	151	202	
6	399	153	201	
7	402	152	201	
8	401	153	202	
9	401	153	202	
10	402	154	203	
11	401	150	199	
12	403	151	203	
13	403	152	202	
14	400	152	201	
15	401	151	200	
16	403	150	201	
17	403	151	202	
18	400	150	203	
19	401	153	202	
20	401	152	200	
Average of 20	**402**	**152**	**202**	

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Lab ID : **CP-2017-09-04-03** **Date: 07-09-17**

Sample ID No : 2017-09-04-03/01

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	150	60450	239.7	4.0	4.0
2	404	151	61004	239.5	3.9	
3	402	152	61104	232.6	3.8	
4	401	152	60952	232.6	3.8	
5	401	151	60551	250.4	4.1	
6	399	153	61047	247.7	4.1	
7	402	152	61104	244.2	4.0	
8	401	153	61353	243.7	4.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-09-18-04** **Date: 21/09/2017**

Customer : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Address : Shettyhalli Sub division, BBMP, Bangalore.

Project Name : Construction of Anganawad at near Mallikarjuna temple in ward no.13 in Shettyhalli Sub division.

Agency : Sri. Venkateshappa, #530, Kaliyamma Temple road, Kuvempu Nagara, 2nd stage, Bengaluru.

Customer's Reference : EE/DD/WO/142/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-09-17

Sample ID No : 2017-09-18-04/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/09/2017	21/09/2017	151.77 X 151.99 X 151.65	23068	8.165	293.0	12.7	12.7
2	PCC	M15	14/09/2017	21/09/2017	150.75 X 150.22 X 150.72	22646	8.185	289.9	12.8	
3	PCC	M15	14/09/2017	21/09/2017	151.46 X 151.06 X 150.29	22880	8.153	288.3	12.6	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-09-18-04** **Date: 12/10/2017**

Customer : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Address : Shettyhalli Sub division, BBMP, Bangalore.

Project Name : Construction of Anganawad at near Mallikarjuna temple in ward no.13 in Shettyhalli Sub division.

Agency : Sri. Venkateshappa, #530, Kaliyamma Temple road, Kuvempu Nagara, 2nd stage, Bengaluru.

Customer's Reference : EE/DD/WO/142/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-09-17

Sample ID No : 2017-09-18-04/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/09/2017	12/10/2017	151.99 X 150.28 X 150.98	22841	8.154	390.6	17.1	17.3
2	PCC	M15	14/09/2017	12/10/2017	150.44 X 150.28 X 151.86	22608	8.129	395.6	17.5	
3	PCC	M15	14/09/2017	12/10/2017	150.29 X 149.55 X 150.76	22476	8.136	391.1	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-10-03-05** **Date: 03/10/2017**

Customer : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Address : Shettyhalli Sub division, BBMP, Bangalore.

Project Name : Construction of Anganawad at near Mallikarjuna temple in ward no.13 in Shettyhalli Sub division.

Agency : Sri. Venkateshappa, #530, Kaliyamma Temple road, Kuvempu Nagara, 2nd stage, Bengaluru.

Customer's Reference : EE/DD/WO/142/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-17

Sample ID No : 2017-10-03-05/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	26/09/2017	03/10/2017	150.29 X 150.35 X 150.22	22596	8.181	400.0	17.7	17.1
2	PCC	M20	26/09/2017	03/10/2017	150.87 X 150.65 X 150.87	22729	8.065	384.1	16.9	
3	PCC	M20	26/09/2017	03/10/2017	150.38 X 150.98 X 151.21	22704	8.118	379.2	16.7	

Note:

The results pertain to the samples received and tested.
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Samples will be disposed after 30 days from the date of issue of test certificate

AE-13

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Page 1/1
****End of Report****

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-10-03-05** **Date: 24/10/2017**

Customer : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Address : Shettyhalli Sub division, BBMP, Bangalore.

Project Name : Construction of Anganawad at near Mallikarjuna temple in ward no.13 in Shettyhalli Sub division.

Agency : Sri. Venkateshappa, #530, Kaliyamma Temple road, Kuvempu Nagara, 2nd stage, Bengaluru.

Customer's Reference : EE/DD/WO/142/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-17

Sample ID No : 2017-10-03-05/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	26/09/2017	24/10/2017	150.11 X 150.28 X 150.29	22559	8.118	478.2	21.2	21.1
2	PCC	M20	26/09/2017	24/10/2017	150.65 X 149.86 X 150.66	22576	8.261	476.4	21.1	
3	PCC	M20	26/09/2017	24/10/2017	151.04 X 149.96 X 150.54	22650	8.054	473.4	20.9	

Note:

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Quality Manager

****End of Report****

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CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-09-04-03** **Date: 06-09-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of Anganawad at near Mallikarjuna temple in ward no.13 in Shettyhalli Sub division.
Agency	:	Sri. Venkateshappa, #530, Kaliyamma Temple road, Kuvempu Nagara, 2nd stage, Bengaluru.
Customer's Reference	:	EE/DD/WO/142/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-17
Sample ID No	:	2017-09-04-03/02
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	05-09-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.394	545	670	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.616	568	685	20.0%	Satisfactory	Satisfactory

Note:

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R KARTHIK RECHAN
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